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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER
1141/76238

U.S. APPLICATION NO. (If known, see 37-CFR 1.5)

10/579514

INTERNATIONAL APPLICATION NO.
PCT/JP2004/016537

INTERNATIONAL FILING DATE
November 8, 2004

PRIORITY DATE CLAIMED
November 12, 2003

TITLE OF INVENTION IMAGE PROCESSING METHOD, IMAGE PROCESSING DEVICE, COMPUTER AIDED
DETECTION, AND METHOD FOR FILTERING ALONG THE TIME AXIS

APPLICANT(S) FOR DO/EO/US

Taiga GOTO, Osamu MIYAZAKI, Koichi HIROKAWA

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98, including Form PTO-1449 and cited references.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☒ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S.

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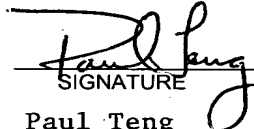
U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/579514		INTERNATIONAL APPLICATION NO. PCT/JP2004/016537		ATTORNEY'S DOCKET NUMBER 1141/76238	
20. Other items or information See page 4					
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300				\$ 300.00	
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$ 200.00	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0					
All other situations..... \$200					
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))				\$ 400.00	
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0					
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100					
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400					
All other situations..... \$500					
TOTAL OF 21, 22 and 23 =				\$ 900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
44 100 =	0 /50 =		x \$250	\$ 0.00	
-Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	27 - 20 =	7	x \$ 50	\$ 350.00	
Independent claims	13 - 3 =	10	x \$200	\$ 2,000.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 3,250.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
SUBTOTAL =				\$ 3,250.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	
TOTAL NATIONAL FEE =				\$ 3,250.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 40.00	
TOTAL FEES ENCLOSED =				\$ 3,290.00	
				Amount to be refunded:	\$
				Amount to be charged	\$

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- 10/579514**
AP20 Rec'd PCT/PTO 12 MAY 2006
- a. ☒ A check in the amount of \$ 3,290.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 03-3125. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:
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SIGNATURE
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NAME
40,837

REGISTRATION NUMBER

10/579514

AP20 Rec'd PCT/PTO 12 MAY 2006
Dkt. 1141/76238

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Taiga GOTO, Osamu MIYAZAKI, Koichi HIROKAWA

Serial No.: Not Yet Known

Int'l Appl'n No.: PCT/JP2004/016537

Date Filed: Concurrently Herewith

Int'l Filing Date: 8 November 2004

For: IMAGE PROCESSING METHOD, IMAGE PROCESSING DEVICE, COMPUTER
AIDED DETECTION, AND METHOD FOR FILTERING ALONG THE TIME
AXIS

**Page 4 of Transmittal Letter To The United States Designated/Elected Office
(DO/EO/US) Concerning A Submission Under 35 U.S.C. 371**

20. Other items or information:

- copy of PCT Request;
- Written Opinion (PCT/ISA/237)
- International Search Report (PCT/ISA/210)
- Notification of Receipt of Record Copy
- Notification Concerning Submission Or Transmittal Of Priority Document
- First Notice Informing The Applicant Of The Communication Of The International
Application (To Designated Offices Which Do Not Apply The 30 Month Time
Limit Under Article 22(1))
- Second And Supplementary Notice Informing The Applicant Of The
Communication Of The International Application
- Express Mail Letter of Transmittal Label EV 554 808 103 US

10/579514

Dkt. 1141/76238

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Taiga GOTO, Osamu MIYAZAKI, Koichi HIROKAWA **AP20 Rec'd PCT/PTO 12 MAY 2006**

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Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

ATTN: DO/EO/US

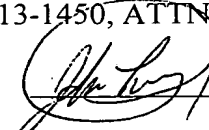
Sir:

EXPRESS MAIL LETTER OF TRANSMITTAL

Express Mail mailing label number: EV554808103US

Date of Deposit: May 12, 2006

I hereby certify that the above-identified new application, consisting of four pages of the Transmittal Letter To The United States Designated/Elected Office (DO/EO/US) Concerning A Filing Under 35 U.S.C. 371 (in duplicate), International Publication No. WO 2005/046478 A1 of the International Application, English translation of the international application as filed [44 pages and in addition 17 sheets of formal drawings (Figs. 1-14)], Declaration And Power Of Attorney (3 pages), Assignment and Recordation Cover Sheet (3 pages total), Preliminary Amendment, Information Disclosure Statement (including Form PTO-1449, international search report and copies of references), copies of PCT Request, Written Opinion (PCT/ISA/237), International Search Report (PCT/ISA210), Notification of Receipt of Record Copy, Notification Concerning Submission Or Transmittal Of Priority Document, First Notice Informing The Applicant Of The Communication Of The International Application (To Designated Offices Which Do Not Apply The 30 Month Time Limit Under Article 22(1)), Second and Supplementary Notice Informing The Applicant Of The Communication Of The International Application, a check in the amount of \$3,290.00 and return postcard, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, ATTN: DO/EO/US.

 John Fernandez

Mail Room Employee
Depositing Express Mail Material

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